

Checklist of the family Ceratopogonidae (Diptera) of Finland

Larry Huldén¹, Lena Huldén²

1 Finnish Museum of Natural History, Zoology Unit, P.O. Box 17, FI-00014 University of Helsinki, Finland

2 University of Helsinki, Department of Agricultural Sciences, P.O. Box 27, FI-00014 University of Helsinki, Finland

Corresponding author: Larry Huldén (larry.hulden@helsinki.fi)

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Abstract

A checklist of the family Ceratopogonidae (Diptera) recorded from Finland is provided.

Keywords

Checklist, Finland, Diptera, Ceratopogonidae

Introduction

The biting midges (Ceratopogonidae) have only occasionally been studied by Finnish entomologists. Most notable are the studies by Lundström (1910, 1916), Munsterhjelm (1920), Storå (1939) and Hämäläinen (1988). The last mentioned reference is not published in print but included because the determinations have been checked by Peter Havelka. Other species reports were given by Frey (1918), Forsius (1924), Krogerus (1960), Meinander (1977) and Hildén et al. (2010). A considerable part of the species information has been contributed by foreign specialists, Edwards (1924), Clastrier (1961, 1991), Delecolle et al. (1983), Borkent and Bissett (1990), Szadziewski (2001), Ashe et al. (2007), Dominiak et al. (2007), Dominiak and Szadziewski (2010) and Dominiak (2012).

A World Catalogue of Ceratopogonidae is maintained by Art Borkent (2014), updated Jan. 20, 2014.

Number of species:

World: 6180 extant species + 274 fossil species (Borkent 2014)

Europe: 567 species (Fauna Europaea, Szadzievski, Borkent and Dominiak 2014)

Finland: 97 species

Faunistic knowledge level in Finland: medium

Checklist

suborder Nematocera Dumeril, 1805

infraorder Culicomorpha Hennig, 1948

superfamily Chironomoidea Newman, 1834

CERATOPOGONIDAE Newman, 1834

FORCIPOMYIINAE Lenz, 1934

ATRICHOPOGON Kieffer, 1906

sg. Atrichopogon Kieffer, 1906

Atrichopogon brunnipes (Meigen, 1804)

Atrichopogon fuscus (Meigen, 1804)

= *fossicola* (Kieffer, 1922)

Atrichopogon longicalcar Remm, 1961

Atrichopogon minutus (Meigen, 1830)

Atrichopogon pavidus (Winnertz, 1852)

sg. Meloehelea Wirth, 1956

Atrichopogon lucorum (Meigen, 1818)

Atrichopogon meloesugans Kieffer, 1922

= *winnertzii* auct. nec Goetghebuer, 1922

Atrichopogon oedemerarum Storå, 1939

sg. Psilokempia Enderlein, 1936

Atrichopogon appendiculatus (Goetghebuer, 1920)

Atrichopogon forcipatus (Winnertz, 1852)

Atrichopogon maculatus (Lundström, 1910)

= *minutus* var. *maculatus* Lundström, 1910

Atrichopogon rostratus (Winnertz, 1852)

FORCIPOMYIA Meigen, 1818

sg. Caloforcipomyia Saunders, 1957

Forcipomyia glauca Macfie, 1934

sg. Forcipomyia Meigen, 1818

Forcipomyia bipunctata (Linnaeus, 1767)

Forcipomyia ciliata (Winnertz, 1852)

Forcipomyia costata (Zetterstedt, 1838)

= *picea* (Winnertz, 1852)

Forcipomyia kaltenbachi (Winnertz, 1852)

Forcipomyia myrmecophila (Egger, 1863)

Forcipomyia nigra (Winnertz, 1852)

sg. *Microhelea* Kieffer, 1917

Forcipomyia fuliginosa (Meigen, 1818)

= *brevimana* (Lundström, 1910)

sg. *Thyridomyia* Saunders, 1925

Forcipomyia monilicornis (Coquillett, 1905)

= *hirta* (Lundström, 1910)

sg. *Trichohelea* Goetghebuer, 1920

Forcipomyia eques (Johanssen, 1908)

DASYHELEINAE Lenz, 1934

DASYHELEA Kieffer, 1911

sg. *Dasyhelea* Kieffer, 1911

Dasyhelea bensoni Edwards, 1933

= *vernalis* Remm, 1979

Dasyhelea bilineata Goetghebuer, 1920

= *saxicola* (Edwards, 1929)

= *obscura* auct. nec (Winnertz, 1852)

= *versicolor* auct. nec (Winnertz, 1852)

Dasyhelea pallidiventris (Goetghebuer, 1931)

sg. *Dicryptoscena* Enderlein, 1936

Dasyhelea modesta (Winnertz, 1852)

= *aestiva* (Winnertz, 1852)

= *longipalpis* Kieffer, 1913

Dasyhelea notata Goetghebuer, 1920

sg. *Pseudoculicoides* Malloch, 1915

Dasyhelea corinneae Gosseries, 1991

= *scutellata* (Meigen, 1830), preocc.

Dasyhelea flavoscutellata (Zetterstedt, 1850)

= *egens* (Winnertz, 1852)

sg. *Sebessia* Remm, 1979

Dasyhelea holosericea (Meigen, 1804)

CERATOPOGONINAE Newman 1834

tribe Culicoidini Kieffer, 1911

Culicoides Latreille, 1809

Culicoides achrayi Kettle & Lawson, 1955

Culicoides albicans (Winnertz, 1852)

= *vexans* auct. nec (Staeger, 1839)

Culicoides chiopterus (Meigen, 1830)

Culicoides circumscriptus Kieffer, 1918

Culicoides dewulfi Goetghebuer, 1936
Culicoides fascipennis (Staeger 1839)
Culicoides festivipennis Kieffer, 1914
 = *odiblis* Austen, 1921
Culicoides griseascens Edwards, 1939
Culicoides impunctatus Goetghebuer, 1920
Culicoides kibunensis Tokunaga 1937
 = *cubitalis* Edwards in Edwards et al. 1939
Culicoides nubeculosus (Meigen, 1830)
Culicoides obsoletus (Meigen, 1818)
 = *varius* (Winnertz, 1852)
Culicoides pallidicornis (Kieffer 1919)
Culicoides pictipennis (Staeger, 1839)
Culicoides pseudoheliophilus Callot & Kremer, 1961
Culicoides pulicaris (Linnaeus, 1758)
Culicoides punctatus (Meigen, 1804)
Culicoides riethi Kieffer, 1914
Culicoides riouxi Callot & Kremer, 1961
Culicoides salinarius Kieffer, 1914
Culicoides scoticus Downes & Kettle, 1952
Culicoides segnis Campbell & Pelham-Clinton 1960
Culicoides sphagnumensis Williams, 1955
 = *carjalaensis* Glukhova, 1957
Culicoides stigma (Meigen, 1818)
Culicoides subfasciipennis Kieffer, 1919
tribe Ceratopogonini Newman, 1834
ALLUAUDOMYIA Kieffer, 1913
Alluaudomyia needhami Thomsen, 1935
 = *pentaspila* Remm & Glukhova, 1971
Alluaudomyia quadripunctata (Goetghebuer, 1934)
BRACHYPOGON Kieffer, 1899
sg. Isohelea Kieffer, 1917
Brachypogon aquilonalis (Clastrier, 1961)
Brachypogon hyperboreus (Clastrier 1961)
Brachypogon incompletus (Kieffer, 1925)
 = *lapiae* Clastrier, 1961
Brachypogon nitidulus (Edwards, 1921)
 = *finnniae* Clastrier, 1961
Brachypogon sociabilis (Goetghebuer, 1920)
CERATOPOGON Meigen, 1800
Ceratopogon lacteipennis Zetterstedt, 1838
Ceratopogon niveipennis Meigen, 1818
 = *candidatus* Winnertz, 1852

SCHIZOHELEA Kieffer, 1917

Schizohalea leucopeza (Meigen, 1804)
 = *copiosa* Winnertz, 1852
 = *xanthopeza* (Clastrier, 1963)

SERROMYIA Meigen, 1818

Serromyia atra (Meigen, 1818)
Serromyia femorata (Meigen, 1804)
Serromyia subinermis Kieffer, 1919
 tribe Heteromyiini Wirth, 1962

CLINOHELEA Kieffer, 1917

Clinohalea unimaculata (Macquart, 1826)
 = *variegata* (Winnertz, 1852)
 tribe Sphaeromiini Newman 1834

MALLOCHOHELEA Wirth, 1962

Mallochohalea inermis (Kieffer, 1909)
Mallochohalea munda (Loew, 1864)
 = *dentata* (Kieffer, 1909)

Mallochohalea nitida (Macquart, 1826)

Mallochohalea setigera (Loew, 1864)
Mallochohalea vernalis Remm, 1965

PROBEZZIA Kieffer, 1906

= *Dicrobezzia* Kieffer, 1919
Probezzia concinna (Meigen, 1818)
 = *venusta* v. *concinna* (Meigen, 1818)

Probezzia seminigra (Panzer, 1798)
 = *venusta* (Meigen, 1818)
 = *borealis* (Clastrier, 1962)

SPHAEROMIAS Curtis, 1829

Sphaeromias fasciatus (Meigen, 1804)
Sphaeromias pictus (Meigen, 1818)
 = *candidatus* (Loew, 1856) preocc.

tribe Palpomyiini Enderlein, 1936

BEZZIA Kieffer, 1899

Bezzia annulipes (Meigen, 1830)
Bezzia bicolor (Meigen, 1804)
Bezzia circumdata (Staeger, 1839)
 = *solstitialis* (Winnertz, 1852)
Bezzia coracina (Zetterstedt, 1850)
 = *albipes* (Winnertz, 1852)
Bezzia fascispinosa Clastrier, 1962
Bezzia flavicornis (Staeger, 1839)
 = *flavipalpis* (Winnertz, 1852)
Bezzia fuscifemoris Remm, 1971

Bezzia leucogaster (Zetterstedt, 1850)
 = *xanthocephala* Goetghebuer, 1911

Bezzia nigritula (Zetterstedt, 1838)

Bezzia nobilis (Winnertz, 1852)
 = *leucogaster* var. *punctata* Lundström, 1910

Bezzia winnertziana Kieffer, 1919
 = *gracilis* (Winnertz, 1852) nec Haliday, 1833

PALPOMYIA Meigen, 1818

Palpomyia armipes (Meigen, 1838)
 = *rufipecta* (Winnertz, 1852)

Palpomyia distincta (Haliday, 1833)

Palpomyia flavipes (Meigen, 1804)
 = *hortulana* Meigen, 1818

Palpomyia flavitarsis (Meigen, 1838)

Palpomyia lineata (Meigen, 1804)
 = *stagnalis* Clastrier, 1962

Palpomyia lundstroemi Remm, 1981
 = *bispinosa* Lundström, 1916, preocc.

Palpomyia serripes (Meigen, 1818)
 = *transfuga* (Staeger, 1839)

Palpomyia tibialis (Meigen, 1818)

Notes

***Atrichopogon meloesugans* Kieffer, 1922.** This species was restored from synonymy with *A. winnerti* Goetghebuer, 1922 by Szadziewski et al. (2007).

***Dasyhelea modesta* (Winnertz, 1852).** Old records reported before 1988 of this species (as *D. aestiva* (Winnertz, 1852) or *D. longipalpis* (Winnertz, 1852)) are questionable according to Dominiak and Szadziewski (2010). Records by Hämäläinen (1988) are valid.

***Ceratopogon neglectus* Winnertz, 1852.** Reported by Lundström (1910) as *Culicoides neglectus* from Finland. Szadziewski (1984) transferred it to *Dasyhelea*. Remm (1988) considered it a doubtful Ceratopogonidae. Because the type specimen is lost and the original description is insufficient it is considered nomen dubium by Dominiak and Szadziewski (2010). The species is removed from the Finnish list.

***Culicoides vexans* (Staeger, 1839).** Reported from Finland by Lundström (1910) who listed *Culicoides albicans* as a probable synonym. *C. vexans* was omitted in Frey and Storå (1941) and Havelka (1978) but included in Hackman (1980) and Szadziewski et al. (1997) (citing Hackman). According to Delecolle et al. (1983) Lundström's *C. vexans* represents *C. albicans*. *C. albicans* is included in the Finnish list and *C. vexans* is removed from the Finnish fauna.

***Culicoides reconditus* (Campbell & Pelham-Clinton, 1960) and *C. riouxi* Callot & Kremer, 1961.** *C. riouxi* was treated as a synonym of *C. reconditus* in Borkent

and Wirth (1997) but restored from synonymy in Borkent (2012). Delecolle et al. (1983) reported *C. riouxi* as a valid species from Finland (N: Tväärminne). The record of *C. reconditus* by Hämäläinen (1988) from Finland (Ta: Riihimäki) was checked by Havelka but because he considered *C. riouxi* and *C. reconditus* synonyms the identity of Hämäläinen's record remains unclear (see Havelka and Aquilar 1999 and Huldén et al. 2008 in accordance with Borkent and Wirth 1997). As a consequence *C. reconditus* is not included in the Finnish list.

***Culicoides salinarius* Kieffer, 1914.** According to Delecolle et al. (1983) this species is indistinguishable from *C. manchuriensis* Tokunaga, 1941 which is reported from Russian Karelia by Glukhova (1957).

***Probezzia concinna* (Meigen, 1818).** The record listed by Krogerus (1960) from Kuusamo district (by mistake as 'coracina') is tentatively interpreted to be in the same locality in Finland as *Probezzia seminigra*, Kuusamo: Isosuo (Storå 1937). *P. concinna* was listed as a variety of *P. seminigra* in Frey and Storå (1941). Storå obviously identified both taxa. The species is here interpreted as a Finnish species.

***Palpomyia flavipennis* Meigen, 1804.** Misspelled species name for *P. flavipes* (Frey and Storå 1941).

***Palpomyia aterrima* Goetghebuer, 1921.** The record listed by Krogerus (1960) from Kuusamo district is from the Russian part according to locality data in Storå (1939). Not recorded in Finland.

***Palpomyia spinipes* (Meigen) in Panzer, 1806.** The record listed by Krogerus (1960) from Kuusamo district is from the Russian part according to the bog type information. Not recorded in Finland.

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